

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF RECEIPT OF
RECORD COPY

(PCT Rule 24.2(a))



From the INTERNATIONAL BUREAU

To:

OSUGA, Yoshiyuki
3rd Fl., Nibancho Bldg.
8-20, Nibancho
Chiyoda-ku, Tokyo 102-0084
Japan

Date of mailing (day/month/year) 28 August 2002 (28.08.02)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 0251092/2570	International application No. PCT/JP02/07012

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

FUJITSU LIMITED (for all designated States except US)
KIMURA, Masaya et al (for US)

International filing date : 10 July 2002 (10.07.02)
Priority date(s) claimed : 10 July 2001 (10.07.01)
Date of receipt of the record copy
by the International Bureau : 05 August 2002 (05.08.02)
List of designated Offices :

EP : DE,FR,GB
National : CN,JP,KR,US

ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

- ☒ time limits for entry into the national phase - see updated important information (as of April 2002)
- ☒ confirmation of precautionary designations (if applicable)
- ☒ requirements regarding priority documents (if applicable)

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer: Yuichiro AIDA
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.83.38

INFORMATION ON TIME LIMITS FOR ENTERING THE NATIONAL PHASE

The applicant is reminded that the **"national phase" must be entered** before each of the designated Offices indicated on the cover sheet of this Notification by paying national fees and furnishing translations, as prescribed by Articles 22 and 39 and the applicable national laws. In addition, the applicant may also have to comply **with other special requirements** applicable in certain Offices. It is the **applicant's responsibility** to ensure the necessary steps to enter the national phase are taken in a timely fashion. Most Offices do not issue reminders to applicants in connection with the entry into the national phase.

The **applicable time limit** for entering the national phase will, **subject to what is said in the following paragraph**, be **30 MONTHS** from the priority date, not only in respect of any elected Office where a demand for international preliminary examination is filed before the expiration of 19 months from the priority date (see Article 39(1)), but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see PCT Gazette No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the PCT Newsletter, October and November 2001 and February 2002 issues.

In practice, **time limits other than the 30-month time limit will continue to apply, for various periods of time**, in respect of certain designated or elected Offices. For **regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit)**, Office by Office, refer to the PCT Gazette ("Section IV" part published on a weekly basis), to the PCT Newsletter (on a monthly basis) and to the relevant National Chapters in Volume II of the PCT Applicant's Guide (the paper version of which is updated usually twice a year and the Internet version of which is updated usually on a weekly basis). Finally, a cumulative table of all applicable time limits for entering the national phase is available from WIPO's Internet site, via links from various pages the site including those of the Gazette, Newsletter and Guide, at <http://www.wipo.int/pct/en/index.html>.

Information about the requirements for **filing a demand for international preliminary examination** is set out in the PCT Applicant's Guide, Volume I/A, Chapter IX. Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

CONFIRMATION OF PRECAUTIONARY DESIGNATIONS

This notification lists only specific designations made under Rule 4.9(a) in the request. It is important to check that these designations are correct. Errors in designations can be corrected where precautionary designations have been made under Rule 4.9(b). The applicant is hereby reminded that any precautionary designations may be confirmed according to Rule 4.9(c) before the expiration of 15 months from the priority date (this time limit may not be extended). If it is not confirmed, it will automatically be regarded as withdrawn by the applicant. There will be no reminder and no invitation. Confirmation of a designation consists of the filing of a notice specifying the designated State concerned (with indication of the kind of protection or treatment desired) and the payment of the designation and confirmation fees. The Notice of confirmation and payment must reach the receiving Office within the 15-month time limit.

REQUIREMENTS REGARDING PRIORITY DOCUMENTS

For applicants who have not yet complied with the requirements regarding priority documents, the following is recalled.

Where the priority of an earlier national, regional or international application is claimed, the applicant must submit a copy of the said earlier application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date, provided that any such priority document may still be submitted to the International Bureau before that date of international publication of the international application, in which case that document will be considered to have been received by the International Bureau on the last day of the 16-month time limit (Rule 17.1(a)).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such request must be made before the expiration of the 16-month time limit and may be subjected by the receiving Office to the payment of a fee (Rule 17.1(b)).

If the priority document concerned is not submitted to the International Bureau or if the request to the receiving Office to prepare and transmit the priority document has not been made (and the corresponding fee, if any, paid) within the applicable time limit indicated under the preceding paragraphs, any designated State may disregard the priority claim, provided that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within the time limit which is reasonable under the circumstances.

Where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit is the filing date of the earliest application whose priority is claimed.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/07012

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ G06F13/00, H04Q7/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G06F13/00, H04B7/26, H04L12/66, H04M15/00, H04Q7/00-7/04,
7/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2002
Kokai Jitsuyo Shinan Koho	1971-2002	Jitsuyo Shinan Toroku Koho	1996-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 2001/0055285 A (NEC Corp.), 27 December, 2001 (27.12.01), Full text; Figs. 1 to 3 & JP 2002-7238 A Full text; Figs. 1 to 3	1, 3, 5-7, 10, 16-20 2, 4, 8, 9, 11-15
Y A	JP 10-84385 A (Nippon Telegraph And Telephone Corp.), 31 March, 1998 (31.03.98), Full text; Figs. 1 to 3 (Family: none)	1, 3, 5-7, 10, 16-20 2, 4, 8, 9, 11-15
Y A	JP 2001-69175 A (NTT Docomo Inc.), 16 March, 2001 (16.03.01), Page 6, left column, line 34 to page 7, right column, line 43; Figs. 1 to 4 (Family: none)	1, 3, 5-7, 10, 16-20 2, 4, 8, 9, 11-15

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not
considered to be of particular relevance
"E" earlier document but published on or after the international filing
date
"L" document which may throw doubts on priority claim(s) or which is
cited to establish the publication date of another citation or other
special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other
means
"P" document published prior to the international filing date but later
than the priority date claimed

"T" later document published after the international filing date or
priority date and not in conflict with the application but cited to
understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be
considered novel or cannot be considered to involve an inventive
step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be
considered to involve an inventive step when the document is
combined with one or more other such documents, such
combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
12 September, 2002 (12.09.02)

Date of mailing of the international search report
01 October, 2002 (01.10.02)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/07012

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 2002/0052798 A (Takashi NISHIKADO), 02 May, 2002 (02.05.02), Full text; Figs. 1 to 33 & JP 2002-140309 A Full text; Figs. 1 to 33	5, 6, 16-19 12-15
Y	WO 00/13370 A (NTT Mobile Communications Network Inc.), 09 March, 2000 (09.03.00), Full text; Figs. 1 to 9 & JP 2000-78129 A Full text; Figs. 1 to 9	16-19
A	JP 2002-176432 A (Sony Corp.), 21 June, 2002 (21.06.02), Full text; Figs. 1 to 13 (Family: none)	8, 9, 11-15



PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

To:

OSUGA, Yoshiyuki
3rd Fl., Nibancho Bldg.
8-20, Nibancho
Chiyoda-ku, Tokyo 102-0084
Japan

INFORMATION CONCERNING ELECTED
OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

Date of mailing (day/month/year) 02 May 2003 (02.05.03)		
Applicant's or agent's file reference 0251092/2570		IMPORTANT INFORMATION
International application No. PCT/JP02/07012	International filing date (day/month/year) 10 July 2002 (10.07.02)	
Priority date (day/month/year) 10 July 2001 (10.07.01)		
Applicant FUJITSU LIMITED et al		

1. The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:

EP :DE,FR,GB

National :CN,JP,KR,US

2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

None

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The entry into the European regional phase is postponed until 31 months from the priority date for all States designated for the purposes of obtaining a European patent.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 338.90.90

Authorized officer:

Thierry PIOZIN (Fax 338 9090)

Telephone No. (41-22) 338 8447

THIS PAGE BLANK (USPTO)

PATENT COOPERATION TREATY



PCT

**NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT**

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

OSUGA, Yoshiyuki
3rd Fl., Nibancho Bldg.
8-20, Nibancho
Chiyoda-ku, Tokyo 102-0084
Japan

Date of mailing (day/month/year) 30 October 2002 (30.10.02)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 0251092/2570	
International application No. PCT/JP02/07012	International filing date (day/month/year) 10 July 2002 (10.07.02)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 10 July 2001 (10.07.01)
Applicant FUJITSU LIMITED et al	

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, **the attention of the applicant is directed** to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, **the attention of the applicant is directed** to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
10 July 2001 (10.07.01)	PCT/JP01/05977	JP	21 Augu 2002 (21.08.02)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer


Lulu HENRIOD (Fax 338 7010)

Telephone No. (41-22) 338.83.38

THIS PAGE BLANK (USPTO)

PCT



From the INTERNATIONAL BUREAU

NOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

OSUGA, Yoshiyuki
3rd Fl., Nibancho Bldg.
8-20, Nibancho
Chiyoda-ku, Tokyo 102-0084
JAPON

Date of mailing(day/month/year) 23 January 2003 (23.01.03)		
Applicant's or agent's file reference 0251092/2570		IMPORTANT NOTICE
International application No. PCT/JP02/007012	International filing date(day/month/year) 10 July 2002 (10.07.02)	
		Priority date(day/month/year) 10 July 2001 (10.07.01)
Applicant FUJITSU LIMITED, et al		

1. Notice is hereby given that the International Bureau has **communicated**, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

KR, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

CN, EP, JP

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 23 January 2003 (23.01.03) under No. WO 03/007160.

4. **TIME LIMITS** for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be **30 MONTHS** from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of **19 months** from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, **time limits other than the 30-month time limit** will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For **regular updates on the applicable time limits** (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a **demand for international preliminary examination**, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's **sole responsibility** to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Judith Zahra
Facsimile No.(41-22) 740.14.35	Telephone No.(41-22) 338.91.11

THIS PAGE BLANK (USPTO)



(19) 世界知的所有権機関
国際事務局



(43) 国際公開日
2003 年 1 月 23 日 (23.01.2003)

PCT

(10) 国際公開番号
WO 03/007160 A1

(51) 国際特許分類⁷: G06F 13/00, H04Q 7/38

(21) 国際出願番号: PCT/JP02/07012

(22) 国際出願日: 2002 年 7 月 10 日 (10.07.2002)

(25) 国際出願の言語: 日本語

(26) 国際公開の言語: 日本語

(30) 優先権データ:
PCT/JP01/05977 2001 年 7 月 10 日 (10.07.2001) JP

(71) 出願人 (米国を除く全ての指定国について): 富士通株式会社 (FUJITSU LIMITED) [JP/JP]; 〒211-8588 神奈川県 川崎市 中原区 上小田中 4 丁目 1 番 1 号 Kanagawa (JP).

(72) 発明者; および

(75) 発明者/出願人 (米国についてのみ): 木村 雅也

(KIMURA, Masaya) [JP/JP]; 〒222-0033 神奈川県 横浜市 港北区 新横浜二丁目 1 5 番 1 6 株式会社富士通ハイパーソフトテクノロジ内 Kanagawa (JP). 佐藤 茂之 (SATO, Shigeyuki) [JP/JP]; 〒222-0033 神奈川県 横浜市 港北区 新横浜二丁目 1 5 番 1 6 株式会社富士通ハイパーソフトテクノロジ内 Kanagawa (JP). 塚原 哲矢 (TSUKAHARA, Tetsuya) [JP/JP]; 〒211-8588 神奈川県 川崎市 中原区 上小田中 4 丁目 1 番 1 号 富士通株式会社内 Kanagawa (JP).

(74) 代理人: 大菅 義之 (OSUGA, Yoshiyuki); 〒102-0084 東京都 千代田区 二番町 8 番地 2 O 二番町ビル 3 F Tokyo (JP).

(81) 指定国 (国内): CN, JP, KR, US.

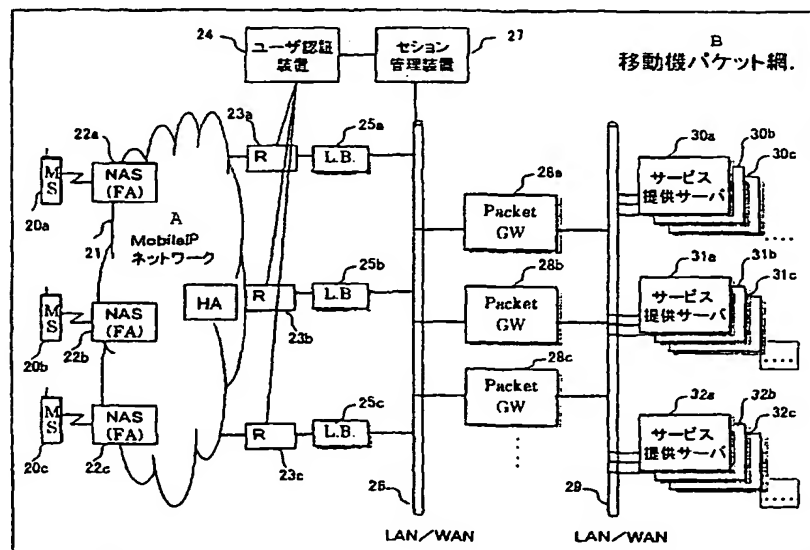
(84) 指定国 (広域): ヨーロッパ特許 (DE, FR, GB).

添付公開書類:
— 国際調査報告書

[続葉有]

(54) Title: MOBILE DEVICE COMMUNICATION SYSTEM AND COMMUNICATION METHOD

(54) 発明の名称: 移動機通信システムおよび通信方法



A...MOBILE IP NETWORK

24...USER AUTHENTICATION DEVICE

27...SESSION MANAGEMENT DEVICE

B...MOBILE DEVICE PACKET NETWORK

30a...SERVICE PROVIDING SERVER

31a...SERVICE PROVIDING SERVER

32a...SERVICE PROVIDING SERVER

(57) Abstract: A communication system connected to a mobile terminal and using a network having a plurality of input/output points at a plurality of service providing servers. By passing a series of communication packets always in the same route, it is possible to maintain a TCP connection and a

[続葉有]



2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

user session. Load distribution devices connected to the plurality of input/output points distribute a series of communication packets always in the same packet gateway among a plurality of packet gateways arranged between the load distribution devices and the service providing servers, and the packet gateway to which a packet is distributed distributes the series of communication packets to a plurality of service providing servers capable of executing an identical service.

(57) 要約:

移動可能端末が接続され、複数のサービス提供サーバ側に複数の出入口を有するネットワークを用いる通信システムで、一連の通信内のパケットを常に同一経路を通過させることにより、TCPコネクションやユーザセッションの維持を可能とする。

前記複数の出入口にそれぞれ接続される負荷分散装置が、一連の通信内のパケットを、サービス提供サーバとの間に設置される複数のパケットゲートウェイの中で常に同一のパケットゲートウェイに振り分け、パケットを振り分けられたパケットゲートウェイが一連の通信内のパケットを、同一のサービスを実行可能な複数のサービス提供サーバのいずれかに振り分ける。